Vaughn Thibodeau & Sons Waldo County Prospect, Maine A-533-71-K-N/A (SM)

# Departmental Findings of Fact and Order Air Emission License

After review of the air emission license application, staff investigation reports, and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

### I. <u>REGISTRATION</u>

#### A. Introduction

Vaughn Thibodeau & Sons located in Prospect, Maine has applied to renew and amend their Air Emission License, permitting the operation of their mineral processing facility including their asphalt plants, concrete batch plant, and the crushed stone and gravel operations.

Vaughn Thibodeau & Sons has requested an amendment to their license in order to include new rock crushing equipment and increase the diesel fuel use limit from 20,000 gallons per year to 100,000 gallons per year.

B. The following is a list of equipment and where it is used:

### **Asphalt Batch Plant:**

<b>Equipment</b>	Process Rate	<b>Design Capacity</b>	Fuel Type & Firing Rate	Manufacturer	Control Device
Kiln #1	100 tph	35 MMBtu/hr	#2 fuel, 0.5%	Stansteel	baghouse
Boiler #1		1.4 MMBtu/hr	#2 fuel, 0.5%	Heat-Tec	none
Gen #1		3.2 MMBtu/hr	Diesel, 0.5%	Cat 375 kwh	none

### **Portable Asphalt Drum Plant:**

<b>Equipment</b>	<b>Process</b>	<b>Design Capacity</b>	Fuel Type &	Manufacturer	Control
	Rate		Firing Rate		Device
Kiln #2	250 tph	75.6 MMBtu/hr	#2 fuel, 0.5%	Astec	baghouse
Boiler #4		0.83 MMBt/hr *	#2 fuel, 0.5%	Hyway	none
Gen #3		4.25 MMBtu/hr	Diesel, 0.5%	GenSet 500 kwh	none

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### **Concrete Batch Plant**

<b>Equipment</b>	<b>Process</b>	Design	Fuel Type &	Manufacturer	Control
	Rate	Capacity	Firing Rate		<b>Device</b>
<b>Batch Plant</b>	100 cubic			Erie	baghouse
	yards/hour				
Boiler #2		0.5 MMBtu/hr *	#2 fuel, 0.5%	HB Smith	none
Boiler #3		0.4 MMBtu/hr *	Diesel, 0.5%	HB Smith	none

#### **Rock Crushers**

<u>Designation</u>	Power Source	Process Rate (tons/hour)	Control Device
Primary Jaw	Electric drive	150	spray nozzles
Secondary Cone	Electric drive	150	spray nozzles
Tertiary Cone	Electric drive	150	spray nozzles
Portable Jaw #1 **	Electric drive	150	spray nozzles
Portable Cone **	Electric drive	150	spray nozzles
Portable Jaw #2 **	Hydraulic drive * w/motor (0.9 MMBtu/hr)	100	spray nozzles

### Diesel Units used for Rock Crushing equipment

Source ID	Max. Capacity	Max. Firing Rate	<u>Manufacturer</u>	Fuel Type, %S
Diesel gen #2	4.3 MMBtu/hr	31.4 gal/hour	Cat 500 kwh	diesel fuel, 0.5%
Diesel gen #4	4.25 MMBtu/hr	31.0 gal/hour	GenSet 500 kwh	diesel fuel, 0.5%

<sup>\*</sup> units considered insignificant activities per Appendix B of Chapter 115

### C. Application Classification

The application for Vaughn Thibodeau & Sons includes the licensing of new and/or modified equipment, therefore the license is considered to be an amendment along with a renewal of current licensed emissions units. The amendment portion of the license increases the diesel fuel limit from 20,000 gallons per year to 100,000 gallons per year and includes new rock crushing equipment.

<sup>\*\*</sup> new equipment previously not listed in the air emissions license

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The modification of a minor source is considered a major modification based on whether or not expected emission increases exceed the "Significant Emission Levels" as defined in the Department's regulations. The emission increases are determined by subtracting the current licensed emissions preceding the modification from the maximum future licensed allowed emissions, as follows:

Pollutant	<b>Current License</b>	<b>Future License</b>	Net Change (TPY)	Sig. Level
	<u>(TPY)</u>	<u>(TPY)</u>		
PM	23.4	23.7	0.3	100
$PM_{10}$	23.4	23.7	0.3	100
$SO_2$	6.7	8.3	1.6	100
$NO_x$	19.0	43.1	24.1	100
CO	38.5	43.7	5.2	100
VOC	6.0	7.9	1.9	50

This modification is determined to be a minor modification and has been processed as such.

## II. BEST PRACTICAL TREATMENT

#### A. Introduction

In order to receive a license the applicant must control emissions from each unit to a level considered by the Department to represent Best Practical Treatment (BPT), as defined in Chapter 100 of the Department regulations.

BPT for new sources and modifications requires a demonstration that emissions are receiving Best Available Control Technology (BACT), as defined in Chapter 100 of the Air Regulations. BACT is a top-down approach to selecting air emission controls considering economic, environmental and energy impacts.

#### New Equipment

#### B. New Rock Crushing Equipment

Vaughn Thibodeau & Sons has requested to include a new jaw crusher and cone crusher that were formerly part of the Dragon Products facility in Canton and a used Extec jaw crusher. The new rock crushing equipment is not subject to EPA New Source Performance Standards (NSPS) Subpart OOO for Nonmetallic Mineral Processing Plants manufactured after August 31, 1983, with capacities greater than 150 tons/hr for portable plants and greater than 25 tons/hr for nonportable plants.

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The regulated pollutant from the rock crushers is particulate emissions. To meet the requirements of Best Available Control Technology (BACT) for control of particulate matter (PM) emissions from the rock crushers, Vaughn Thibodeau & Sons shall continue to maintain and operate water sprays for particulate control when needed. The facility shall limit visible emissions to no greater than 10% opacity on a six (6) minute block average basis. The Portable Jaw #2 crusher is relatively small in comparison to other rock crushing equipment and is moved much more frequently. Because this unit can be moved so frequently, sometimes more than once in a day, Vaughn Thibodeau & Sons does not have to meet Condition (21) of this license for this unit.

#### Existing Equipment

BPT for existing emissions equipment means that method which controls or reduces emissions to the lowest possible level considering:

- the existing state of technology;
- the effectiveness of available alternatives for reducing emissions from the source being considered; and
- the economic feasibility for the type of establishment involved.

### C. Asphalt Batch Plant and Asphalt Drum Plant

Vaughn Thibodeau & Sons operates both an asphalt batch plant (Kiln #1) and an asphalt drum plant (Kiln #2). The asphalt batch plant's kiln #1 was manufactured in 1955 and is therefore not subject to EPA New Source Performance Standards (NSPS) Subpart I for Hot Mix Asphalt Facilities manufactured after June 11, 1973. However, the asphalt drum plant, which was recently licensed in 2002, was manufactured in 1983 and therefore is subject to the NSPS. The asphalt drum plant has not operated due to necessary repairs which are now complete. The initial performance test required by 40 CFR Part 60 Subpart I is planned for later this spring.

The asphalt batch plant fires #2 fuel oil, with a sulfur content not to exceed 0.5% weight. Fuel use shall not exceed 290,000 gal/year based on a 12 month rolling total. The asphalt drum plant fires #2 fuel oil, with a sulfur content not to exceed 0.5% by weight. Fuel use shall not exceed 400,000 gallons per year based on a 12 month rolling total.

The following is required for both the asphalt batch plant and the asphalt drum plant.

To meet the requirements of Best Practical Treatment (BPT) for the control of particulate matter (PM) emissions, the asphalt batch and drum plant kilns each

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vent to a separate baghouse. Opacity from both the asphalt batch and drum plants baghouses is limited to no greater than 20% on a six (6) minute block average basis, except for no more than two (2) six (6) minute block averages in a continuous 3-hour period.

Based on the hot mix asphalt processing rates, the average emission rate from each asphalt plant baghouse shall be limited to 0.03 grs/dscf.

The performance of the baghouses shall be constantly monitored by either one of the following at all times the Dryer or Drum is operating:

- 1. PM detector when the detector signals excessive PM concentrations in the exhaust stream, Vaughn Thibodeau & Sons shall take corrective action within 24 hours, or immediately if opacity exceeds 20%.
- 2. Personnel with a current EPA Method 9 visible emissions certification when the opacity exceeds 20%, the hot mix asphalt plant is operating with insufficient control and corrective action shall be taken immediately.

General process emissions from the asphalt batch and drum plants shall be controlled so as to prevent visible emissions in excess of 20% opacity on a six (6) minute block average basis except for no more than one (1) six (6) minute block average in a 1-hour period.

Petroleum contaminated soil processing cannot exceed 10,000 cubic yards per year without prior approval from the Department. The facility shall only process soils contaminated with gasoline or #2 fuel without prior approval from the Department.

#### D. Concrete Batch Plant

To meet the requirements of BPT for control of particulate matter (PM) emissions from the cement silo, particulate emissions shall be vented through a baghouse maintained for 99% removal efficiency. Visible emissions from the cement silo baghouse is limited to no greater than 10% opacity on a six (6) minute block average basis except for no more than one (1) six (6) minute block average in a 1-hour period. The facility shall take corrective action if visible emissions from the baghouses exceed 5% opacity.

All components of the concrete batch plant shall be maintained so as to prevent PM leaks. Visible emissions from concrete batching operations shall not exceed 20% opacity on a six (6) minute block average basis except for no more than one (1) six (6) minute block average in a 1-hour period.

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#### E. Existing Rock Crushers

The existing primary, secondary, and tertiary rock crushers are portable units which were each manufactured in 1997 with rated capacities of 150 tons per hour, respectively. The primary, secondary, and tertiary rock crushers are therefore not subject to EPA New Source Performance Standards (NSPS) Subpart OOO for Nonmetallic Mineral Processing Plants manufactured after August 31, 1983, with capacities greater than 150 tons/hr for portable plants and greater than 25 tons/hr for non-portable plants.

The regulated pollutant from the rock crushers is particulate emissions. To meet the requirements of Best Practical Treatment (BPT) for control of particulate matter (PM) emissions from the rock crushers, Vaughn Thibodeau & Sons shall operate and maintain water sprays on the rock crushers as needed. Visible emissions from the rock crushers shall be limited to no greater than 10% opacity on a six (6) minute block average basis.

#### F. Diesel Units #1, #2, #3, #4

The Diesel units are utilized primarily to provide electrical power to the asphalt plants and the portable rock crushers. Total fuel use in the diesel units shall not exceed 100,000 gal/year of diesel fuel, based on a 12 month rolling total, with a maximum sulfur content not to exceed 0.5% by weight and is therefore considered to be receiving BPT.

A summary of the BPT analysis for Generator #1, #2, #3, and #4 is the following:

- The total fuel use for the generators shall not exceed 100,000 gal/year of diesel fuel, based on a 12 month rolling total, with a maximum sulfur content not to exceed 0.5% by weight.
- Chapter 106 regulates fuel sulfur content, however in this case a BPT analysis for SO<sub>2</sub> determined a more stringent limit of 0.5% was appropriate and shall be used.
- Chapter 103 regulates PM emission limits. The PM<sub>10</sub> limits are derived from the PM limits.
- NO<sub>x</sub>, CO, and VOC emission limits are based upon AP-42 data dated 10/96.
- Visible emissions from each generator shall each not exceed 30% opacity on a six (6) minute block average, except for no more than two (2) six (6) minute block averages in a continuous 3-hour period.

#### G. Heating Boiler #1

Vaughn Thibodeau operates four boilers, however, boilers #2, #3, and #4 are each under a maximum heat input capacity of 1.0 MMBtu/hr and are therefore determined as insignificant units per Appendix B of Chapter 115. The boilers are utilized primarily to generate steam and heat water for the concrete process and as

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hot oil burners on the asphalt batch and drum plants. Boiler #1 is rated at 1.4 MMBtu/hr and is required to meet BPT. Total fuel use in the boiler shall be included in the total licensed fuel limit for the asphalt batch plant of 290,000 gal/year of #2 fuel oil and shall not exceed a maximum fuel sulfur content of 0.5% by weight.

Opacity from the boiler shall not exceed 20% on a six (6) minute block average basis, except for two (2) six (6) minute block averages in any 3-hour period.

#### H. Stock Piles and Roadways

Visible emissions from a fugitive emission source shall not exceed an opacity of 20 percent, except for no more than five (5) minutes in any 1-hour period. Compliance shall be determined by an aggregate of the individual fifteen (15)-second opacity observations which exceed 20 percent in any one (1) hour.

### I. Facility Emissions and Fuel Use Caps

Facility emissions are based on an annual fuel limit of 290,000 gallons of fuel oil for the asphalt batch plant, 400,000 gallons for the asphalt drum plant, and 100,000 gallons per year of diesel fuel for the generators.

**Total Allowable Annual Ton/Year Emissions for the Facility** (used to calculate the annual license fee)

<u>Equipment</u>	<u>PM</u>	<u>PM<sub>10</sub></u>	$\underline{SO}_2$	$NO_{X}$	<u>CO</u>	VOC
Asphalt Batch Plant	14.3	14.3	5.1	7.0	23.2	2.1
Asphalt Drum Plant	8.6	8.6	1.2	5.9	14.0	3.4
Diesel Engines #1,#2,#3,#4	0.8	0.8	2.0	30.2	6.5	2.4
TOTALS	23.7	23.7	8.3	43.1	43.7	7.9

### III. AMBIENT AIR QUALITY ANALYSIS

According to the Maine Regulations Chapter 115, the level of air quality analyses required for a renewal source shall be determined on a case-by-case basis. Modeling and monitoring are not required of a renewal if the total emissions of any pollutant released do not exceed the following:

<b>Pollutant</b>	<b>TPY</b>
PM	25
$PM_{10}$	25
$SO_2$	50
$NO_x$	100
CO	250

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Based on the above total facility emissions, Vaughn Thibodeau & Sons is below the emissions level required for modeling and monitoring.

### **ORDER**

Based on the above Findings and subject to conditions listed below the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards,
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License A-533-71-K-N/A (SM), subject to the following conditions:

#### STANDARD CONDITIONS

- (1) Employees and authorized representatives of the Department shall be allowed access to the licensee's premises during business hours, or any time during which any emissions units are in operation, and at such other times as the Department deems necessary for the purpose of performing tests, collecting samples, conducting inspections, or examining and copying records relating to emissions. [MEDEP Chapter 115]
- (2) The licensee shall acquire a new or amended air emission license prior to commencing construction of a modification, unless specifically provided for in Chapter 115. [MEDEP Chapter 115]
- (3) Approval to construct shall become invalid if the source has not commenced construction within eighteen (18) months after receipt of such approval or if construction is discontinued for a period of eighteen (18) months or more. The Department may extend this time period upon a satisfactory showing that an extension is justified, but may condition such extension upon a review of either the control technology analysis or the ambient air quality standards analysis, or both. [MEDEP Chapter 115]
- (4) The licensee shall establish and maintain a continuing program of best management practices for suppression of fugitive particulate matter during any period of construction, reconstruction, or operation which may result in fugitive

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- dust, and shall submit a description of the program to the Department upon request. [MEDEP Chapter 115]
- (5) The licensee shall pay the annual air emission license fee to the Department, calculated pursuant to Title 38 M.R.S.A. § 353. [MEDEP Chapter 115]
- (6) The license does not convey any property rights of any sort, or any exclusive privilege. [MEDEP Chapter 115]
- (7) The licensee shall maintain and operate all emission units and air pollution systems required by the air emission license in a manner consistent with good air pollution control practice for minimizing emissions. [MEDEP Chapter 115]
- (8) The licensee shall maintain sufficient records to accurately document compliance with emission standards and license conditions and shall maintain such records for a minimum of six (6) years. The records shall be submitted to the Department upon written request. [MEDEP Chapter 115]
- (9) The licensee shall comply with all terms and conditions of the air emission license. The filing of an appeal by the licensee, the notification of planned changes or anticipated noncompliance by the licensee, or the filing of an application by the licensee for a renewal of a license or amendment shall not stay any condition of the license. [MEDEP Chapter 115]
- (10) The licensee may not use as a defense in an enforcement action that the disruption, cessation, or reduction of licensed operations would have been necessary in order to maintain compliance with the conditions of the air emission license. [MEDEP Chapter 115]
- (11) In accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department, the licensee shall:
  - A. perform stack testing to demonstrate compliance with the applicable emission standards under circumstances representative of the facility's normal process and operating conditions:
    - 1. within sixty (60) calendar days of receipt of a notification to test from the Department or EPA, if visible emissions, equipment operating parameters, staff inspection, air monitoring or other cause indicate to the Department that equipment may be operating out of compliance with emission standards or license conditions; or
    - 2. pursuant to any other requirement of this license to perform stack testing.

- B. install or make provisions to install test ports that meet the criteria of 40 CFR Part 60, Appendix A, and test platforms, if necessary, and other accommodations necessary to allow emission testing; and
- C. submit a written report to the Department within thirty (30) days from date of test completion.

[MEDEP Chapter 115]

- (12) If the results of a stack test performed under circumstances representative of the facility's normal process and operating conditions indicate emissions in excess of the applicable standards, then:
  - A. within thirty (30) days following receipt of such test results, the licensee shall re-test the non-complying emission source under circumstances representative of the facility's normal process and operating conditions and in accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department; and
  - B. the days of violation shall be presumed to include the date of stack test and each and every day of operation thereafter until compliance is demonstrated under normal and representative process and operating conditions, except to the extent that the facility can prove to the satisfaction of the Department that there were intervening days during which no violation occurred or that the violation was not continuing in nature; and
  - C. the licensee may, upon the approval of the Department following the successful demonstration of compliance at alternative load conditions, operate under such alternative load conditions on an interim basis prior to a demonstration of compliance under normal and representative process and operating conditions.

[MEDEP Chapter 115]

- (13) Notwithstanding any other provisions in the State Implementation Plan approved by the EPA or Section 114(a) of the CAA, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any statute, regulation, or Part 70 license requirement. [MEDEP Chapter 115]
- (14) The licensee shall maintain records of malfunctions, failures, downtime, and any other similar change in operation of air pollution control systems or the emissions unit itself that would affect emission and that is not consistent with the terms and conditions of the air emission license. The licensee shall notify the Department within two (2) days or the next state working day, whichever is later, of such occasions where such changes result in an increase of emissions. The licensee shall report all excess emissions in the units of the applicable emission limitation. [MEDEP Chapter 115]

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(15) Upon written request from the Department, the licensee shall establish and maintain such records, make such reports, install, use and maintain such monitoring equipment, sample such emissions (in accordance with such methods, at such locations, at such intervals, and in such a manner as the Department shall prescribe), and provide other information as the Department may reasonably require to determine the licensee's compliance status. [MEDEP Chapter 115]

#### **SPECIFIC CONDITIONS**

#### (16) **Asphalt Plant**

- A. Emissions from the hot mix asphalt batch plant and drum plant shall vent to separate baghouses, and all components of both asphalt plants shall be maintained so as to prevent PM leaks. [MEDEP Chapter 115, BPT]
- B. The performance of the baghouses shall be constantly monitored by either one of the following at all times the Dryer or Rotary Drum is operating [MEDEP Chapter 115, BPT]:
  - 1. PM detector when the detector signals excessive PM concentrations in the exhaust stream, Vaughn Thibodeau & Sons shall take corrective action within 24 hours, or immediately if opacity exceeds 20%.
  - 2. Personnel with a current EPA Method 9 visible emissions certification when the opacity exceeds 20%, the plants are operating with insufficient control and corrective action shall be taken immediately.
- C. To document maintenance of the baghouses, the license shall keep a maintenance log recording the date and location of all bag failures as well as all routine maintenance. The maintenance log shall be kept on-site at the asphalt plant location. [MEDEP Chapter 115, BPT]
- D. Opacity from each baghouse is limited to no greater than 20% on a six (6) minute block average basis, except for no more than two (2) six (6) minute block averages in a continuous 3-hour period. [MEDEP Chapter 101]
- E. General process emissions from the asphalt batch plant and the asphalt drum plant shall be controlled so as to prevent visible emissions in excess of 20% opacity on a six (6) minute block average basis except for no more than one (1) six (6) minute block average in a 1-hour period. [MEDEP Chapter 101]
- F. Fuel use records and receipts for the asphalt Dryer and Rotary Drum shall be maintained for at least six years and made available to the Department upon request. The facility will maintain a log showing 12-month rolling total fuel use and maintain fuel receipts with % sulfur. [MEDEP Chapter 115, BPT]
- G. Vaughn Thibodeau & Sons shall be limited to the use of 290,000 gal/year of #2 fuel oil in the asphalt batch plant (12 month rolling total), with a sulfur content not to exceed 0.5% and 400,000 gal/year of #2 fuel oil in the asphalt drum plant (12 month rolling total), with a sulfur content not to exceed 0.5% by weight. Emissions from each of the baghouses shall not exceed the following [MEDEP Chapter 115, BPT]:

Pollutant	grs/dscf	Batch Plant lb/hr	Drum Plant lb/hr
PM	0.03	24.7	20.1
$PM_{10}$	-	24.7	20.1
$SO_2$	-	8.8	2.8
$NO_X$	-	12.0	13.8
СО	-	40.0	32.5
VOC	-	3.6	8.0

- H. Vaughn Thibodeau & Sons shall perform an initial performance test to demonstrate compliance with the PM emission limits as required in 40 CFR Part 60 Subpart I. The facility shall follow the procedures documented in 40 CFR Part 60.8 to meet the initial performance test within 180 days after startup of the HMA drum plant.
- I. The licensee shall not process more than 10,000 cubic yards of petroleum contaminated soils per year without prior approval from the Department. Processing of petroleum contaminated soils may require a solid waste processing facility license under 06-096 CMR409. The material shall be handled in accordance with the requirements of the Bureau of Remediation and Waste Management. [MEDEP Chapter 115, BPT]
- J. Without prior approval from the Department, the licensee shall only process soils contaminated with gasoline and #2 fuel oil. [MEDEP Chapter 115, BPT]
- K. The licensee shall not process contaminated soils which are classified as hazardous waste or which have unknown contaminants. [MEDEP Chapter 115, BPT]
- L. When processing petroleum contaminated soils, the licensee shall maintain records which specify the quantity and type of contaminant in the soil, the origin of the soil and the contaminant, and the characterization of the contaminated soil. In addition when processing contaminated soil, the licensee shall maintain records of processing temperature, asphalt feed rate, fuel use, soil moisture content, and dryer throughput, on an hourly basis. [MEDEP Chapter 115, BPT]

#### (17) **Concrete Batch Plant**

- A. Particulate emissions from the cement silo shall be vented through a baghouse and all components of the batch plant shall be maintained so as to prevent PM leaks. [MEDEP Chapter 115, BPT]
- B. To document maintenance of the cement silo baghouse, the licensee shall keep a maintenance log recording the date and location of all bag failures as well as

- all routine maintenance. The maintenance log shall be kept on-site at the concrete batch plant location. [MEDEP Chapter 115, BPT]
- C. Opacity from the cement silo baghouse is limited to no greater than 10% on a 6 minute block average basis, except for no more than one (1) six (6) minute block average in a 1-hour period. Vaughn Thibodeau & Sons shall take corrective action if visible emissions from the baghouse exceed 5% opacity. [MEDEP Chapter 101]
- D. PM emissions from the concrete batching operation shall be controlled so as to prevent visible emissions in excess of 20% opacity on a six (6) minute block average basis, except for no more than one (1) six (6) minute block average in a 1-hour period. [MEDEP Chapter 101]

#### (18) Rock Crushers

- A. Vaughn Thibodeau & Sons shall maintain spray nozzles for particulate control on Rock Crusher #1 and operate them as necessary to limit visible emissions to no greater than 10% opacity on a six (6) minute block average basis. [MEDEP Chapters 115 (BPT) and 101]
- B. Vaughn Thibodeau & Sons shall maintain a log detailing the maintenance on the water spray nozzles. The maintenance log shall be kept on-site at the rock crushing location. [MEDEP Chapter 115, BPT]
- C. Vaughn Thibodeau & Sons shall maintain a log detailing and quantifying the hours of operation on a daily basis for all of the primary, secondary and tertiary rock crushers. The operation log shall be kept on-site at the rock crushing location.
  - [MEDEP Chapter 115, BPT]
- D. The crushers shall not be attached or clamped via cable, chain, turnbuckle, bolt, or other means (except electrical connections) to any anchor, slab, or structure (including bedrock) that must be removed prior to transportation. [MEDEP Chapter 115, BPT]

#### (19) **Diesel Units and Boiler #1**

- A. Total fuel use for diesel generators shall not exceed 100,000 gal/yr of diesel fuel with a maximum sulfur content not to exceed 0.5% by weight. Compliance shall be based on fuel receipts from the supplier showing the quantity of fuel delivered and the percent sulfur of the fuel. Records of annual fuel use shall be kept on a 12-month rolling total basis. [MEDEP Chapter 115, BPT]
- B. Vaughn Thibodeau & Sons' asphalt batch plant and its associated boiler #1 shall not exceed the total use of 290,000 gal/year of #2 fuel oil (12 month rolling total), with a sulfur content not to exceed 0.5% by weight. Compliance shall be based on fuel receipts from the supplier showing the quantity of fuel

delivered and the percent sulfur of the fuel. Records of annual fuel use shall be kept on a 12-month rolling total basis.

[MEDEP Chapter 115, BPT]

C. Emissions shall not exceed the following:

<b>Emission Unit</b>	Pollutant	lb/MMBtu	Origin and Authority
Boiler #1	PM	0.12	MEDEP, Chapter 103, Section 2(B)(1)(a)
Generators #1, #2 #3, & #4 (each)	PM	0.12	MEDEP, Chapter 103, Section 2(B)(1)(a)

D. Emissions shall not exceed the following: [MEDEP Chapter 115, BPT]:

Emission Unit	PM (lb/hr)	PM <sub>10</sub> (lb/hr)	SO <sub>2</sub> (lb/hr)	NO <sub>x</sub> (lb/hr)	CO (lb/hr)	VOC (lb/hr)
Boiler #1	0.2	0.2	0.7	0.3	0.1	0.1

<u>Pollutant</u>	Diesel Unit #1 (lb/hour)	Diesel Units # 2, #3, & #4 (lb/hour each)
PM	1.0	1.3
$PM_{10}$	1.0	1.3
$SO_2$	0.9	1.2
$NO_x$	14.1	19.0
CO	3.0	4.1
VOC	1.1	1.5

- E. Visible emissions from each diesel generator shall not exceed 30% opacity on a six (6) minute block average, except for no more than two (2) six (6) minute block averages in a continuous 3-hour period.

  [MEDEP Chapter 101]
- F. Visible emissions from Boiler #1 shall not exceed 20% opacity based on a six (6) minute block average basis, except for two (2) six (6) minute block averages in any 3-hour period.

  [MEDEP Chapter 101]

### (20) Stockpiles and Roadways

Visible emissions from a fugitive emission source shall not exceed an opacity of 20 percent, except for no more than five (5) minutes in any 1-hour period. Compliance shall be determined by an aggregate of the individual fifteen (15)-second opacity observations which exceed 20 percent in any one (1) hour. [MEDEP Chapter 101]

#### (21) **Equipment Relocation** [MEDEP Chapter 115, BPT]

A. Vaughn Thibodeau & Sons shall notify the Bureau of Air Quality, by a written notification at least 10 days in advance, prior to relocation of any equipment carried on this license. The notification shall be sent to:

Attn: Relocation Notice Maine DEP Bureau of Air Quality 17 State House Station Augusta, ME 04333-0017

The notification shall include the address of the equipment's new location and the license number pertaining to the relocated equipment.

- B. Written notification shall also be made to the municipality where the equipment will be relocated, except in the case of an unorganized territory where notification will be made to the respective county commissioners. If less than 10 days is necessary for notification, contact the regional inspector by phone to notify of the upcoming relocation. This phone contact with the regional inspector shall be followed up with a written notice of relocation with the appropriate information.
- Vaughn Thibodeau & Sons shall keep a copy of this Order on site, and have the operator(s) be familiar with the terms of this Order. [MEDEP Chapter 115, BPT]
- (23) Vaughn Thibodeau & Sons shall notify the Department within 48 hours and submit a report to the Department on a <u>quarterly basis</u> if a malfunction or breakdown in any component causes a violation of any emission standard (Title 38 MRSA §605-C).

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# Departmental Findings of Fact and Order Air Emission License

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(24)	Pavment	Λf	Fees
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Vaughn Thibodeau & Sons shall pay the annual air emission license fee within 30 days of **December 30th** of each year. Pursuant to 38 MRSA §353-A, failure to pay this annual fee in the stated timeframe is sufficient grounds for revocation of the license under 38 MRSA §341-D, subsection 3.

DONE AND DATED IN AUGUSTA, MAINE	THIS	_DAY OF	_2004.
DEPARTMENT OF ENVIRONMENTAL PRO	OTECTION		
RY·			
BY:DAWN R. GALLAGHER, COMMISS	IONER	<del></del>	
The term of this license shall be five (5) year	s from the sig	nature date above.	
PLEASE NOTE ATTACHED SHEET FOR G	UIDANCE ON	N APPEAL PROCEDURES	
Date of initial receipt of application: <u>January 2</u> Date of application acceptance: <u>February 4, 20</u>			
Date filed with the Board of Environmental Pro	otection:		
This Order prepared by Edwin Cousins, Bureau of	Air Quality.		